

**Summary**

The invention relates to a method and an analysis arrangement for determination of characteristics and/or classification of circulating macrophages. A whole blood sample is subjected to a gradient centrifugation for isolating macrophages. The macrophage cells are then perforated and provided with an intracellular staining with at least one selected antibody. A flow cytometric analysis of the pre-treated cells enables a subsequent statistical evaluation of the cell contents. PSA, cytokeratin and/or epithelial membrane antigen are selected as antibodies.

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